

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P856808

Luminaire Tested: **LX4C10D010 EX4C109827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P856808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

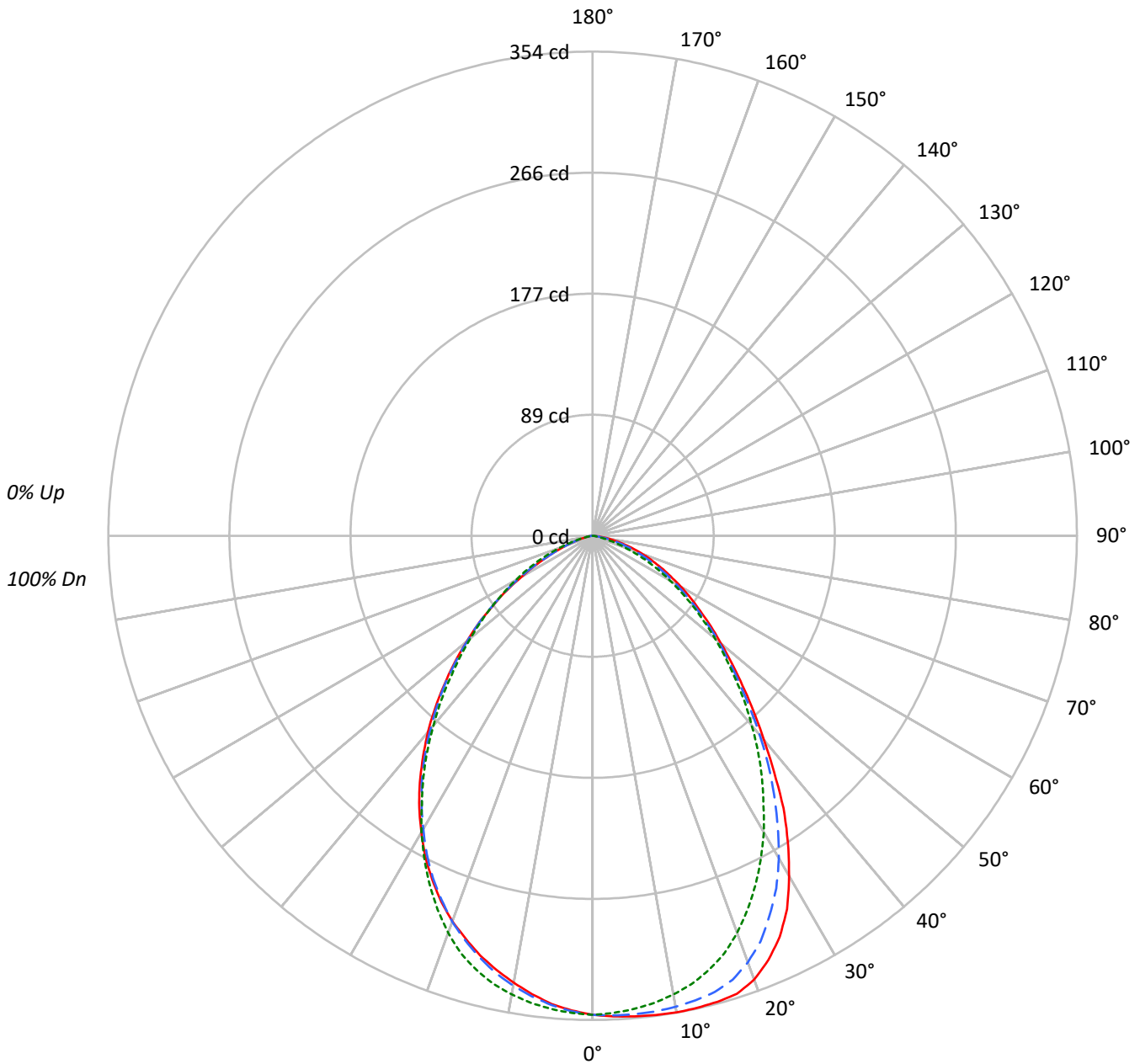
Lumens per Lamp: N/A
Luminaire Lumens: 659.9 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60				60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35				35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43023	43023	43023
5°	43496	42830	42374
10°	44136	42477	41392
15°	44859	41794	40407
20°	45144	40372	39208
25°	43852	38186	37603
30°	40742	35493	35521
35°	36474	32350	33040
40°	31241	28996	30054
45°	26878	25575	26548
50°	23375	22266	22935
55°	20562	19148	18977
60°	18305	15971	14718
65°	16046	12820	10669
70°	13757	9016	7220
75°	11155	5269	4225
80°	7995	2264	2052
85°	2960	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	5.0
10°-20°	93.4	14.2
20°-30°	133.4	20.2
30°-40°	139.5	21.1
40°-50°	116.9	17.7
50°-60°	81.8	12.4
60°-70°	44.6	6.8
70°-80°	15.5	2.3
80°-90°	1.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	259.8	39.4
0°-40°	399.3	60.5
0°-60°	598.1	90.6
0°-90°	659.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	350	350	350	350	350	
5°	353	351	347	344	344	34
15°	353	345	329	319	318	100
25°	324	306	282	276	277	148
35°	243	231	216	217	220	151
45°	155	151	147	152	153	120
55°	96	93	89	89	89	87
65°	55	50	44	37	37	55
75°	24	19	11	9	9	25
85°	2	1	1	1	1	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2
2.5°	351.8	351.3	351.5	351.5	351.5	351.3	351.5	351.3	351.3	351.3	351.0
5°	352.7	352.4	352.4	352.4	352.3	352.1	352.1	352.1	351.8	351.6	351.1
7.5°	353.4	353.1	353.1	353.0	352.9	352.7	352.6	352.1	351.8	351.5	350.8
10°	353.8	353.4	353.4	353.1	352.9	352.7	352.4	351.9	351.3	350.7	349.7
12.5°	353.5	353.1	353.0	352.7	352.1	351.9	351.6	351.0	350.0	349.1	347.9
15°	352.7	352.4	352.1	351.8	351.1	350.7	350.5	349.4	348.1	346.8	345.3
17.5°	351.1	350.7	350.2	349.7	348.7	348.2	347.6	346.3	344.5	342.6	340.3
20°	345.3	345.0	344.5	343.6	342.1	341.5	340.6	338.9	336.5	334.2	331.8
22.5°	335.7	335.3	334.5	333.7	332.4	331.5	330.7	328.2	325.7	323.3	320.9
25°	323.5	323.1	322.0	320.9	319.6	318.0	317.2	315.2	312.7	309.6	306.2
27.5°	307.7	306.4	306.0	304.8	302.7	302.2	301.0	298.6	296.1	293.5	290.6
30°	287.2	287.2	286.4	285.9	284.0	283.5	282.1	279.6	278.2	274.5	272.3
32.5°	265.6	265.3	264.7	264.2	263.2	262.2	260.8	259.5	256.6	254.7	251.7
35°	243.2	241.6	241.8	241.0	240.4	239.3	239.2	237.7	235.0	233.9	231.2
37.5°	217.8	217.1	218.0	216.8	216.2	216.2	215.2	214.3	213.2	211.3	210.8
40°	194.8	195.3	195.1	194.0	194.6	194.0	192.9	191.9	191.4	190.1	189.8
42.5°	174.2	173.4	173.1	173.1	173.2	173.2	172.6	172.0	172.0	170.8	169.5
45°	154.7	154.7	154.4	155.3	154.1	154.1	153.6	153.6	153.0	152.8	151.2
47.5°	138.0	137.9	137.8	137.6	137.5	137.5	136.7	136.0	135.9	135.1	134.3
50°	122.3	123.1	122.8	122.2	121.9	122.0	121.5	121.1	120.9	119.6	119.8
52.5°	109.1	109.0	109.2	108.8	108.2	108.3	107.7	107.2	106.7	106.0	105.5
55°	96.0	96.7	96.4	96.0	95.9	95.6	95.2	94.5	94.4	92.9	92.8
57.5°	85.1	85.0	84.7	84.0	83.9	83.5	83.5	82.9	82.1	81.3	80.7
60°	74.5	74.5	74.1	73.9	73.4	73.3	73.1	72.6	71.6	71.0	69.9
62.5°	64.2	64.5	64.2	63.8	63.4	62.9	62.6	62.2	61.4	60.7	59.8
65°	55.2	55.1	54.9	54.4	54.3	53.8	53.6	52.8	52.0	51.5	50.4
67.5°	46.6	46.2	46.2	45.9	45.7	45.2	44.9	44.1	43.2	42.7	41.6
70°	38.3	38.1	38.1	38.1	37.5	37.0	36.9	36.5	35.1	34.6	33.5
72.5°	30.9	30.7	30.6	30.1	29.8	29.8	29.2	28.4	27.7	27.1	26.2
75°	23.5	23.8	23.5	23.0	22.9	22.7	22.2	21.6	20.9	20.1	19.1
77.5°	17.2	16.9	16.7	16.7	16.4	15.9	15.8	15.2	14.4	13.9	12.9
80°	11.3	11.1	10.9	10.6	10.5	10.3	10.3	9.7	8.9	8.5	7.7
82.5°	6.2	6.1	6.1	5.9	5.5	5.5	5.4	4.8	4.5	4.2	3.7
85°	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.8	1.6	1.5	1.2
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2
2.5°	350.7	350.5	350.3	350.2	350.0	349.9	349.7	349.5	349.4	349.2	348.9
5°	350.7	350.2	349.9	349.5	349.2	348.9	348.5	348.1	347.7	347.3	346.9
7.5°	350.2	349.4	348.8	348.0	347.7	347.3	346.5	346.0	345.3	344.5	343.6
10°	348.8	347.9	346.8	345.7	345.3	344.7	343.6	342.6	341.5	340.5	339.5
12.5°	346.6	345.2	343.9	342.3	341.5	340.8	339.4	338.1	336.7	335.5	333.9
15°	343.4	341.6	339.9	337.9	337.0	336.2	334.0	332.4	330.2	328.6	327.0
17.5°	338.1	335.5	333.3	330.7	329.4	328.4	326.6	324.1	322.0	320.2	318.4
20°	329.1	326.6	323.6	320.8	319.3	318.1	315.4	312.7	310.7	308.8	306.8
22.5°	317.3	314.1	311.9	308.4	307.2	305.7	302.5	300.1	297.8	295.9	294.0
25°	302.9	300.1	297.1	293.8	292.4	290.6	287.9	285.4	283.9	281.7	279.5
27.5°	286.3	284.0	280.4	277.6	276.1	274.7	272.2	269.9	267.7	266.3	264.1
30°	268.8	266.1	262.9	259.9	259.1	257.5	255.2	253.4	251.2	250.2	249.2
32.5°	249.5	246.5	244.1	242.1	240.5	239.2	238.0	235.2	234.7	232.3	232.0
35°	228.6	227.2	224.9	223.3	222.0	221.0	219.0	217.7	216.2	215.7	214.8
37.5°	208.8	207.2	205.0	203.5	202.5	202.4	200.9	200.1	199.0	198.5	197.4
40°	188.0	187.4	185.5	185.2	183.7	183.5	182.7	181.8	180.8	180.8	181.0
42.5°	168.9	168.1	167.3	166.3	165.5	165.5	165.2	164.9	164.6	164.2	164.9
45°	151.0	149.9	149.4	148.4	148.8	148.0	147.8	147.8	147.3	147.2	148.1
47.5°	134.3	133.0	132.5	132.2	132.2	132.4	131.2	131.6	131.4	131.7	132.2
50°	119.0	118.0	117.2	117.2	117.3	116.7	116.2	116.6	116.2	116.5	117.4
52.5°	104.9	103.8	103.4	103.4	102.6	102.5	102.7	102.2	102.4	102.5	103.0
55°	91.8	91.1	90.5	89.8	90.0	89.7	89.2	89.0	89.3	89.4	90.1
57.5°	80.2	79.2	78.2	77.9	77.7	77.7	77.0	76.9	77.1	76.5	76.5
60°	68.9	68.4	67.2	66.8	66.8	66.2	65.5	65.9	65.2	65.0	65.2
62.5°	58.6	58.1	57.3	56.5	56.3	56.0	55.4	55.1	54.8	54.3	53.5
65°	49.6	48.6	47.7	47.2	46.7	46.1	45.7	45.1	44.3	44.1	43.2
67.5°	40.6	39.6	38.6	38.3	37.8	37.5	36.7	36.1	35.1	34.1	33.2
70°	32.5	31.4	30.9	29.8	29.5	29.0	28.0	27.4	26.4	25.1	24.3
72.5°	24.9	24.1	23.3	22.4	21.7	21.3	20.5	19.4	18.3	17.7	16.7
75°	17.9	17.5	16.4	15.3	15.1	14.5	13.6	12.9	12.1	11.1	10.3
77.5°	12.1	11.3	10.6	9.7	9.5	8.9	8.4	7.7	7.1	6.4	5.9
80°	7.1	6.4	6.1	5.4	5.1	4.8	4.5	3.9	3.5	3.2	3.1
82.5°	3.5	2.9	2.9	2.4	2.3	2.1	1.9	1.8	1.5	1.5	1.5
85°	1.2	1.0	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2
2.5°	348.8	348.7	348.5	348.4	348.4	348.2	348.2	348.1	348.1	348.0	348.0
5°	346.4	346.0	345.7	345.5	345.5	345.0	344.7	344.5	344.4	344.4	344.1
7.5°	343.1	342.5	341.9	341.5	341.4	340.7	340.2	340.2	339.7	339.4	339.1
10°	338.6	337.6	336.8	336.5	335.9	335.5	334.8	334.4	334.0	333.3	333.2
12.5°	332.5	331.8	330.7	330.1	329.9	329.1	327.9	327.4	327.3	326.7	326.3
15°	325.7	324.1	323.1	322.5	322.5	321.0	320.5	319.7	319.2	318.8	318.6
17.5°	316.7	315.2	314.2	313.3	313.0	311.9	311.1	310.9	310.1	310.4	309.8
20°	305.3	304.1	303.3	302.0	302.0	301.4	301.1	300.4	300.2	299.9	300.2
22.5°	293.0	291.6	290.3	290.1	290.1	289.1	289.0	288.8	288.3	288.7	288.6
25°	278.7	277.6	276.8	276.6	276.6	276.1	275.5	275.8	276.2	276.1	276.5
27.5°	263.7	262.6	262.4	262.2	261.9	261.8	262.1	262.1	262.4	263.0	263.6
30°	247.5	247.3	246.8	246.7	246.5	247.1	247.4	247.8	247.6	248.4	249.0
32.5°	231.4	230.9	230.7	231.0	231.4	231.2	232.0	232.3	232.6	233.5	233.9
35°	215.1	214.9	214.6	214.6	214.8	215.9	215.9	216.8	217.4	217.7	218.7
37.5°	197.6	198.1	198.4	198.8	198.9	199.3	199.6	200.6	201.1	201.6	202.2
40°	181.6	181.3	182.5	181.6	181.9	183.2	183.7	183.5	184.4	185.2	185.7
42.5°	164.4	164.9	165.2	165.4	166.0	166.2	166.8	167.8	168.1	169.0	169.3
45°	147.9	148.0	148.6	149.1	149.5	150.5	150.8	151.2	152.0	152.0	152.5
47.5°	132.2	132.8	132.8	133.6	134.3	134.1	135.1	135.4	135.2	135.9	136.2
50°	117.3	118.1	118.0	118.5	118.8	119.0	119.8	120.0	119.5	120.1	120.3
52.5°	103.0	103.4	104.0	104.1	103.8	104.5	104.2	104.8	104.6	105.1	104.6
55°	90.0	89.8	89.8	90.1	89.8	90.1	90.3	89.8	89.4	90.0	89.8
57.5°	76.9	76.9	76.6	77.0	76.6	76.2	76.1	75.7	75.3	75.3	75.2
60°	64.7	64.4	63.8	63.7	63.7	63.0	62.8	62.2	62.2	61.7	61.2
62.5°	53.2	52.5	52.1	52.1	51.8	51.2	49.9	49.1	48.9	48.1	48.0
65°	42.4	41.7	41.4	40.6	39.9	39.6	38.3	37.5	37.0	36.2	36.4
67.5°	32.5	31.5	30.3	29.8	29.3	28.4	28.0	27.4	26.9	26.9	26.9
70°	23.5	22.5	21.3	20.9	20.6	19.8	19.4	19.3	19.6	19.5	19.6
72.5°	15.8	14.8	14.3	14.0	13.7	13.4	13.6	13.7	13.5	13.6	13.7
75°	9.5	9.3	8.9	8.7	8.7	8.9	8.7	8.7	8.9	8.9	9.0
77.5°	5.5	5.3	5.3	5.1	5.4	5.3	5.3	5.3	5.4	5.4	5.4
80°	2.9	2.9	2.9	2.9	3.1	2.9	3.1	3.1	3.1	3.1	3.1
82.5°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	350.2	350.2	350.2	350.2	350.2	350.2	350.2	350.2
2.5°	347.7	347.7	347.7	347.4	347.6	347.6	347.4	347.4
5°	343.9	343.9	343.6	343.6	343.3	343.6	343.4	343.6
7.5°	338.9	338.9	338.4	338.4	338.3	338.1	338.1	338.1
10°	332.8	332.8	332.5	332.4	332.5	332.0	332.0	331.8
12.5°	326.0	325.8	325.5	325.7	325.5	325.1	325.0	325.1
15°	318.3	317.8	318.0	317.5	317.5	317.5	317.7	317.7
17.5°	309.6	309.3	309.1	309.3	308.9	309.1	308.9	308.8
20°	300.1	299.9	299.9	299.4	299.5	299.4	299.5	299.9
22.5°	289.0	288.8	289.0	288.6	288.8	288.8	289.3	289.3
25°	276.9	276.8	277.1	277.2	277.3	277.7	277.3	277.4
27.5°	263.4	263.9	264.2	264.4	264.9	264.5	264.2	264.7
30°	249.8	249.8	249.7	250.2	250.7	251.0	250.4	250.4
32.5°	234.2	234.9	234.9	235.0	235.4	235.4	235.4	236.0
35°	219.3	219.6	219.8	219.3	219.5	219.4	220.3	220.3
37.5°	202.5	202.5	202.7	203.6	203.6	203.2	203.5	203.5
40°	186.6	186.8	186.3	186.6	187.2	186.9	187.2	187.4
42.5°	169.3	170.2	169.7	170.0	169.8	170.0	170.1	170.1
45°	152.8	153.0	153.0	153.1	153.4	153.6	152.8	152.8
47.5°	136.5	136.7	137.1	136.4	137.2	136.4	137.2	136.3
50°	120.3	120.8	120.4	120.7	120.3	120.3	120.1	120.0
52.5°	104.8	104.6	104.6	104.5	104.5	104.8	104.5	104.9
55°	89.3	89.4	89.2	89.0	88.9	89.3	88.9	88.6
57.5°	74.6	74.9	74.4	74.6	73.7	74.1	74.2	74.4
60°	61.0	60.6	60.6	60.1	60.1	60.5	59.9	59.9
62.5°	47.3	47.5	47.2	47.7	47.7	48.2	48.0	48.2
65°	36.2	36.4	36.5	36.5	36.5	37.3	37.0	36.7
67.5°	27.4	27.5	27.6	27.5	27.9	27.6	27.6	27.7
70°	19.8	20.0	20.1	20.1	20.0	20.1	20.1	20.1
72.5°	13.7	13.9	13.7	13.9	14.0	13.9	13.9	14.0
75°	9.0	9.0	8.9	8.9	8.9	8.9	9.0	8.9
77.5°	5.3	5.4	5.3	5.4	5.4	5.4	5.4	5.4
80°	3.1	3.1	3.1	2.9	3.1	3.1	3.1	2.9
82.5°	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)